

### CLAIMS

What is claimed is:

1. An automated condensation drainage system comprising:  
a transmitter with a sequence controller electronically wired with two  
5 condensation chambers communicating via a signal;  
condensation drain lines in fluid communication with each said  
condensation chamber;  
a drain valve connected to each said condensation drain line that leads to  
a drain for purging of excess condensation within an instrument tubing system;  
10 wherein said system is incorporated into the piping network of an air flow  
measurement system as a mechanism for automatically purging excess  
condensation from the instrument tubing of a network.
2. The automated condensation drainage system of Claim 1, wherein said  
15 condensation chamber is arranged in a lower profile position in relation to  
the transmitter and sequence controller and the flow element,  
respectively.
3. The automated condensation drainage system of Claim 1, further  
20 comprising an automated drain valve controlling each said chamber in the

system, said automated drain valve opened and closed by signal generated from the transmitter and sequence controller.

4. The automated condensation drainage system of Claim 3, wherein said automated drain valve comprises a solenoid valve.
5. The automated condensation drainage system of Claim 3, wherein a drain cycle is pre-selected by the operator to drain the excess condensation at specified intervals, wherein the sequence controller energizes the automated valve to open, and the condensation drains therethrough by gravity and assisted by the system static pressure into the drain.